

MATERIAL SAFETY DATA SHEET

Republic Powdered Metals, Inc.

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NPCA - HMIS RATING METHOD

HEALTH	2
FIRE	3
REACTIVITY	0

I. PRODUCT IDENTIFICATION

MSDS # 9221

TRADE NAME: RAMUC Thinner

SYNONYMS: Paint thinner

SHIPPING NAME -- U.S. DOT: Paint related material, 3, UN1263, PGIII (packaged in 5 gal. pails)
Consumer Commodity, ORM-D [49CFR 173.150 (c)] (packaged in 1 gal. ctns.)
IMDG: Paint related material, 3., UN1263, PGIII, FP82°F,
IATA: Paint related material, 3, UN1263, PGIII

II. INGREDIENTS

HAZARDOUS COMPONENT	CAS#	WEIGHT %	OSHA PEL	ACGIH TLV	SARA 313
Xylene	1330-20-7	100	100 ppm	100 ppm	Yes

III. PHYSICAL DATA

INITIAL BOILING POINT: 282½F
VAPOR DENSITY: Heavier than air
FREEZING POINT: N/A
APPEARANCE AND ODOR: Clear colorless liquid.

SPECIFIC GRAVITY (H₂O = 1): 0.868
SOLUBILITY IN WATER: Slight
pH: N/A
EVAPORATION RATE: Slower than n-Butyl Acetate
VOC: 866 g/l

IV. FIRE AND EXPLOSION DATA

FLASH POINT °F (Tag Closed Cup): 82½F
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.0% UPPER: 7.0%
EXTINGUISHING MEDIA: Alcohol foam, CO₂, dry chemical, water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Wear complete fire service protective equipment, including full-face MSHA/NIOSH approved self-contained breathing apparatus. Use water to cool fire exposed containers, structures and project personnel. Toxic vapors may be given off in fire.
UNUSUAL FIRE & EXPLOSIVE HAZARDS: When heated (fire conditions), vapors and decomposition products may be released forming flammable or explosive mixtures in the air. Closed containers may explode when exposed to extreme heat (fire). Vapors are heavier than air and may travel along the ground, pit or sewer line to some distant source of ignition and flash back.
SENSITIVITY TO IMPACT: Possible
SENSITIVITY TO STATIC DISCHARGE: Possible

V. REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Sparks, heat and open flame.
HAZARDOUS POLYMERIZATION: Will not occur. N/A
INCOMPATIBILITY: Avoid oxidizing agents.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide.

VI. HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE - AVENUE OF ENTRY:

EYES: Direct contact of liquid or vapor with the eye may cause irritation.

SKIN: Prolonged or repeated contact with the skin may cause irritation.

INHALATION: Excessive inhalation of vapors may cause central nervous system depression characterized by dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.

SWALLOWING: Aspiration of this material into the lungs may cause chemical pneumonitis which can be fatal. Ingestion may cause gastrointestinal disturbances such as nausea, vomiting and diarrhea.

Warning: This product contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm. (Prop 65)

FIRST AID:

IF IN EYES: Immediately flush eyes with large amounts of water for 15 minutes. Seek medical attention.

IF ON SKIN: Wash skin thoroughly with soap & water or waterless hand cleaner. If irritation persists, seek medical attention.

IF INHALED: Remove from exposure. Avoid further overexposure. Seek medical attention if exposure is severe.

IF SWALLOWED: Immediately seek medical attention. Do not induce vomiting.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Stop leak if no risk is involved. Avoid breathing vapors. Eliminate all sources of ignition. Ventilate area. Avoid contact with hot liquid and fumes. Take up carefully to avoid heat and sparks. Use inert absorbent to complete cleanup.

WASTE DISPOSAL METHOD: This product is a US EPA ignitable hazardous waste. Dispose of as an ignitable hazardous waste in accordance with local, state and federal regulations.

PRECAUTIONS TO TAKE IN STORAGE AND HANDLING: Avoid prolonged or repeated breathing of vapors, mists or fumes. Avoid prolonged or repeated contact with skin or eyes. Store in buildings or areas designed to comply with OSHA 1910.106. Keep in a closed, labeled container within a cool (well shaded), dry-ventilated area.

OTHER PRECAUTIONS: Protect from physical damage. Keep containers closed when material is not in use. Ground and bond drums. Do not use pressure to empty drums. Do not wear contaminated clothing. Discard contaminated footwear. Keep away from heat and flame. Do not use without fully understanding the information contained in this Material Safety Data Sheet.

CAUTION: KEEP OUT OF REACH OF CHILDREN.

VIII. SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Use MSHA/NIOSH approved unit. Combination filter/organic vapor cartridges or canisters may be used.

VENTILATION: Provide sufficient general or local exhaust ventilation in pattern/volume to control inhalation exposures below current exposure limits and areas below flammable vapor concentrations. Local exhaust is necessary for use in enclosed spaces.

PROTECTIVE GLOVES: Industrial safety glasses, minimum. Use side shields, goggles and/or face shield, if splashing is possible.

EYE PROTECTION: Industrial safety glasses with side shields. Chemical goggles, if splashing is possible.

OTHER PROTECTIVE EQUIPMENT: Wear industrial-type work clothing and safety footwear. Depending on working conditions, i.e., contact potential wear resistant protective garments such as head/neck cover, aprons, jackets, pants, coveralls, boots, etc.

HYGIENIC PRACTICES: Wash exposed areas promptly and thoroughly after contact and before eating, drinking or using tobacco or rest rooms.

IX. DISCLAIMER

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with Republic or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.

DEFINITIONS

HMIS - Hazardous Materials Identification System
DOT - Department of Transportation
PEL - Permissible Exposure Limit
LC 50 - Lethal Concentration
RCRA - Resource Conservation & Recovery Act
T/S - Trade Secret

VOC - Volatile Organic Compound
CAS - Chemical Abstracts Service
TLV - Threshold Limit Value
LD 50 - Lethal Dose
CFR - Code of Federal Regulations
N/A - Not Available

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety & Health Administration
NPCA - National Paint & Coatings Association
SARA - Superfund Amendments & Reauthorization Act of 1986
NIOSH - National Institute for Occupational Safety & Health
N/E - Not Established

TRADE NAME: RAMUC Thinner

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